

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the Application of:

Inventors : Hood et al.
Serial No. : 10/056,182
Filed : January 24, 2002
Title : STRUCTURAL AND OPTICAL
APPLICATIONS FOR SHAPE
MEMORY POLYMERS (SMP)
Docket No. : CRG 005 P2
Customer No.: 021367



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Commissioner for Patents
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Sir:

Pursuant to 37 C.F.R. 1.56, the attention of the Patent and Trademark Office is hereby directed to the reference(s) listed on the attached PTO/SB/08A. One copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the reference(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This information disclosure statement, filed in accordance with 37 C.F.R. 1.97, shall not be construed as a representation that a search has been made. Further, the filing of this information disclosure statement shall not be construed to be an admission that the information cited herein is, or is considered to be, material to patentability as defined in 37 C.F.R. 1.56(b)

XX

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Respectfully submitted,
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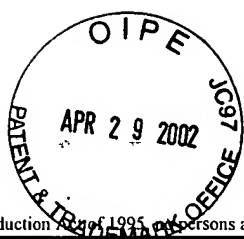
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35 East First Street
Dayton, Ohio 45402
(937) 461-4543
April 25, 2002

By *Bruce E. Peacock*
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Reg. No. 28,457



PTO/SB/08A (10-01)

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Substitute for form 1449A/PTO SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	10/056,182
				Filing Date	January 24, 2002
				First Named Inventor	Hood et al.
				Art Unit	3725
Examiner Name					
Sheet	1	of	1	Attorney Docket Number	CRG 005 P2

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-5,880,896	03/09/1999	Ishii et al.	
		US-5,861,114	01/19/1999	Roffman et al.	

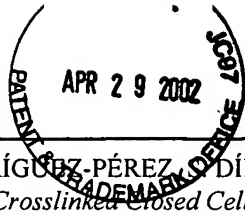
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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
		TOSHISADA TAKAHASHI, NORIYA HAYASHI and SHUNICHI HAYASHI; <i>Structure and Properties of Shape-Memory Polyurethane Block Copolymers</i> ; <i>Journal of Applied Polymer Science</i> ; 1996; Pgs. 1061-1069; Vol. 60; John Wiley & Sons, Inc.	
		BYUNG KYU KIM, SANG YUP LEE and MAO XU; <i>Polyurethanes Having Shape Memory Effects</i> ; <i>Polymer</i> ; 1996; Pgs. 5781-5793; Vol. 37, No. 26; Elsevier Science Ltd.; GB	
		FENGKUI LI, XIAN ZHANG, JIANAN HOU, MAO XU, XIAOLIE LUO, DEZHU MA and BYUNG KYU KIM; <i>Studies on Thermally Stimulated Shape Memory Effect of Segmented Polyurethanes</i> ; <i>Journal of Applied Polymer Science</i> ; 1997; Pgs. 1511-1516; Vol. 64; John Wiley & Sons, Inc.	
		VIERA SKÁKALOVÁ, VLADIMIR LUKEŠ and MARTIN BREZA; <i>Shape Memory Effect of Dehydrochlorinated Crosslinked Poly (Vinyl Chloride)</i> ; <i>Macromol. Chem. Phys.</i> ; 198; Hüthig & Wepf Verlag, Zug	
		J. R. LIN and L. W. CHEN; <i>Study on Shape-Memory Behavior of Polyether-Based Polyurethanes. I. Influence of the Hard-Segment Content</i> ; <i>Journal of Applied Polymer Science</i> ; 1998; Pgs. 1563-1574; Vol. 69; John Wiley & Sons, Inc.	



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		M. A. RODRÍGUEZ-PÉREZ, J. DÍEZ-GUTIÉRREZ and J. A. DE SAJA; <i>The Recovery Behavior of Crosslinked Closed Cell Polyolefin Foams</i> ; <i>Polymer Engineering and Science</i> ; May 1998; Pgs. 831-837; Vol. 38, No. 5	
		YOSHIHARA KAGAMI, JIAN PING GONG and YOSHIHITO OSADA; <i>Shape Memory Behaviors of Crosslinked Copolymers containing stearyl acrylate</i> ; <i>Macromol. Rapid Commun.</i> ; 1996; Pgs. 539-543; Vol. 17; Hüthig & Wepf Verlag, Zug	
		R. A. MANTZ, P. F. JONES, K. P. CHAFFEE, J. D. LICHTENHAM and J. W. GILMAN; <i>Thermolysis of Polyhedral Oligomeric Silsesquioxane (Poss) Macromers and Poss-Siloxane Copolymers</i> ; <i>Chem. Mater.</i> ; 1996; Pgs. 1250-1259; Vol. 8; American Chemical Society	
		PIYADA CHAROENSIRISOMBOON, HIROMU SAITO, TAKASHI INOUE, YOSHIYUKI OISHI and KUNIO MORI; <i>Polysulfide Containing S-Triazine Rings as a New Thermoplastic Elastomer: Spherulite Morphology and Strain Recovery Behaviour</i> ; <i>Polymer</i> ; 1998; Pgs. 2089-2093; Vol. 39, No. 11; Elsevier Science Ltd., GB	
		M. P. BOGDANOV, S. A. DIMAKOV, A. V. GORLANOV, D. A. GORYACHKIN, A.M. GRIGOR'EV, V. M. IRTUGANOV, V. P. KALINEN, I. M. KLIMENT'EV, I. M. KOZLOVSKAYA, I. B. ORLOVA, V. E. SHERSTOBITOV and V. YU. VENEDIKTOV; <i>Correction of Segmented Mirror Aberrations by Phase Conjugation and Dynamic Holography</i> ; <i>Optic Communications</i> ; 1996; Pgs. 405-413; Vol. 129; Elsevier Science B.V.	
		BYUNG KYU KIM, SANG YUP LEE, JEONG SAM LEE, SANG HYUN BAEK, YOUNG JIN CHOI, JANG OO LEE and MAO XU; <i>Polyurethane Ionomers Having Shape Memory Effects</i> ; <i>Polymer</i> ; 1998; Pgs. 2803-2808; Vol. 39, No. 13; Elsevier Science Ltd.; GB	
		T. S. HADDAD, E. CHOE and J. D. LICHTENHAN; <i>Hybrid Styryl-Based Polyhedral Oligomeric Silsesquioxane (Poss) Polymers</i> ; <i>Mat. Res. Soc. Symp. Proc.</i> ; 1996; Pgs. 25-33; Vol. 435; Materials Research Society	
		<i>Engineered Material Handbook</i> ; Vol. 3: Adhesives and Sealants; 1999; Pgs. 316-318; 2nd Ed., ASM Internatin; US	
		MALKIN, ASKADSKY, KOVRIGA and CHALYKH; <i>Experimental Methods of Polymer Physics</i> ; 1983; Pgs. 38-41; Prentice-Hall; Englewood Cliffs, NJ; US	
		E. HECHT; <i>Optics, 2nd Ed.</i> ; 1990; Pg. 351; Addison-Wesley; Reading, MA; US	
		RICHARD F. GORDON; <i>Applications of Shape Memory Polyurethanes; Proceedings of First Intn'l. Conference on Shape Memory and Superelastic Technologies</i> ; 1994; Pgs. 115-120	
		H. TOBUSHI, S. HAYASHI and P. H. LIN; <i>Deformation Properties of Polyurethane Shape Memory Polymers</i> ; <i>Proceedings of the First Intn'l. Conference on Shape Memory and Superelastic Technologies</i> ; 1994; Pgs. 109-114	
		<i>Shape Memory Polymers That Resist Creep Better</i> ; <i>High-Tech Materials Alert</i> ; June 2, 2000; John Wiley & Sons, Inc.; US	

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